

Observations of Occultations of Stars by the Moon made at the Royal Observatory, Greenwich, in the Year 1902. 174

(Communicated by the Astronomer Royal.)

Day.	Phenomenon.	Telescope.	Power.	Moon's Limb.	Mean Solar Time of Observation.	Observer.
1902.					h m s	
Jan. 18	Disapp. W. B. (2) II. 1358	Sheepshanks Equat.	150	Dark	5 25 13.38	A. C.
Feb. 12	" " ϵ Piscium	Great Equat.	670	"	7 39 22.94	B.
12	" "	Sheepshanks Equat.	150	"	7 39 22.88	W. B.
12	" "	Great Equat. (Corbett)	120	"	7 39 22.94	W. H. B.
12	Reapp. "	Astrographic Equat.	225	Bright	8 18 11.39	W. S.
13	Disapp. Piazzi I. 223	Old Altazimuth	100	Dark	8 27 53.97	A. C.
13 (a)	" "	Sheepshanks Equat.	150	"	8 27 53.55	W.
13 (b)	" "	Astro. Equat. Finder		"	8 27 52.78	W. S.
13	" "	Astrographic Equat.	225	"	8 27 53.18	Sti.
15	" Piazzi III. 215	Sheepshanks Equat.	150	"	11 26 36.64	A. C.
16	" ι Tauri	" "	150	"	6 23 38.10	W.
16	" "	Astro. Equat. Finder		"	6 23 38.45	W. S.
16	" "	Astrographic Equat.	225	"	6 23 37.95	Sti.
March 17	" 26 Geminorum	Sheepshanks Equat.	150	"	9 18 50.23	A. C.
17	" "	Great Equat. (Corbett)	120	"	9 18 50.09	R.
17	" "	Great Equat.	670	"	9 18 49.99	W. B.
17	" "	Astrographic Equat.	225	"	9 18 50.17	W. S.
20 (c)	" ω Leonis 1st Star	Old Altazimuth	100	"	8 27 14.81	A. C.

Jan. 1903.

Occultations of Stars, 1902.

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Day.	Phenomenon.	Telescope.	Powe.	Moon's Limb.	Mean Solar Time of Observation.	Observer.
1902.					h m s	
Mar. 20 (d)	Disapp. ω Leonis 1st Star	Great Equat.	670	Dark	8 27 14.59	B.
20 (d) (e)	"	Sheepshanks Equat.	150	"	8 27 14.79	W.
20 (r)	"	Astrographic Equat.	225	"	8 27 15.35	W. S.
20	"	Great Equat.	670	"	8 27 16.58	B.
20	"	Sheepshanks Equat.	150	"	8 27 16.68	W.
20	"	Astrographic Equat.	225	"	8 27 16.44	W. S.
22 (f) (g)	"	Sheepshanks Equat.	150	"	11 (19 6.52)	W. S.
May 12 (a) (h)	"	Old Altazimuth	100	"	10 37 0.62	R.
12 (i)	"	Sheepshanks Equat.	150	"	10 36 58.15	W.
12 (j)	"	Astrographic Equat.	225	"	10 36 56.24	W. S.
June 18 (i)	"	"	225	"	9 36 15.46	W. S.
18 (i)	"	Sheepshanks Equat.	150	"	9 37 48.74	G. B.
18	"	Astrographic Equat.	225	"	9 37 48.70	W. S.
Sept. 17 (f) (k)	"	"	225	"	11 30 (17.43)	R.
Oct. 16 (b) (l)	"	Sheepshanks Equat.	150	"	10 17 18.61	B.
21 (f) (m)	Reapp. W. R. (2) VI. 148	Astrographic Equat.	225	"	12 12 39.92	W. S.
Dec. 4 (i)	Disapp. β Capricorni	"	225	"	7 37 44.74	W. S.

- (a) The Moon's dark limb was easily visible.
(b) The observer noted "perhaps early."
(c) The observer suspected the fainter star for a few seconds after this.
(d) Instantaneous.
(e) The stars could just be separated before disappearance.
(f) These observations being uncertain have not been used.
(g) The signal for comparison of clocks failed to register.
(h) The star faded gradually.
(i) The star was diffused.

- (*γ*) This was not considered a good observation.
- (*ε*) The limb was boiling; the star was probably not really occulted so soon.
- (*δ*) The limb was almost full; the star apparently entered a deep cleft in the limb.
- (*μ*) Thin cloud over the Moon. The star was faint. The observer was not certain whether the star appeared from behind the Moon or the cloud.

The apertures of the telescopes used are as follows :—

	...	...	...	inches.		...	inches.
Great Equatorial	...	...	...	28	Great Equatorial (Corbett Telescope)	...	6½
Astrographic Equatorial (Guiding Telescope)	...	...	...	10	Old Altazimuth	...	4
Sheepshanks Equatorial	...	...	...	6¾	Astrographic Equatorial Finder	...	2½

The initials A. C., B., R., W. B., W., G. B., W. S., W. H. B., Sti., are those of Mr. Crommelin, Mr. Bryant, Mr. Rendell, Mr. Bowyer, Mr. Witchell, Mr. Bisschlager, Mr. Stevens, Mr. Brookes, and Mr. Stiles respectively.

Reynold Observatory, Greenwich : 1903 January 9.